

Title (en)
METHOD FOR DEFINING A LASER CONTROL SIGNAL FOR DIFFERENT LASER TYPES, AND LASER PLOTTER AND GALVO MARKING LASER THEREFOR

Title (de)
VERFAHREN ZUM FESTLEGEN EINES LASER-ANSTEUERSIGNALS FÜR UNTERSCHIEDLICHE LASERTYPEN UND LASERPLOTTER SOWIE GALVO-MARKIERLASER HIERFÜR

Title (fr)
PROCÉDÉ POUR DÉFINIR UN SIGNAL DE COMMANDE LASER POUR DIFFÉRENTS TYPES DE LASER ET TRACEUR LASER ET LASER DE MARQUAGE GALVO CORRESPONDANT

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Abstract (en)
[origin: WO2022198249A2] The invention describes a laser plotter, a galvo marking laser and a method for defining a laser control signal (19a) for a laser source (4) for different laser machine types (1), in particular laser plotters (2) or galvo marking lasers, for cutting, engraving, marking and/or inscribing a workpiece (7), in which, in a housing (3) of the laser machine type (1), at least one laser source (4) is used for processing a workpiece (7), wherein a control unit (13) generates a PWM signal (19, 19a) for controlling the laser source (4) from the set parameters and/or a loaded job, wherein preferably the workpiece (7) is placed on a processing table (9) and the workpiece (7) is processed line by line, wherein a dedicated PWM signal (19, 19a) for controlling the laser source (4) is generated for each line. Upon a defined edge (28), in particular the falling edge (28a), of the PWM signal (19, 19a), a correction process (21) for generating a preferably changed PWM signal (19a), in particular a laser control signal (19a), is carried out, wherein the correction process (21) determines the preceding pause duration (23, 23a,b,c,...) and the pulse duration (24, 24a,b,c,...), from which a correction value (25, 25a,b,c,...) or correction factor (25, 25a,b,c,...) is determined or calculated.

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